Actarit
Item No. 20852

CAS Registry No.: 18699-02-0
Formal Name: 4-(acetylamino)-benzeneacetic acid
Synonyms: MS-932, NSC 170317
MF: C₁₀H₁₁NO₃
FW: 193.2
Purity: ≥98%
UV/Vis.: λmax: 246 nm
Supplied as: A crystalline solid
Storage: -20°C
Stability: As supplied, 2 years from the QC date provided on the Certificate of Analysis, when stored properly

Laboratory Procedures

Actarit is supplied as a crystalline solid. A stock solution may be made by dissolving the actarit in the solvent of choice. Actarit is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of actarit in ethanol is approximately 3 mg/ml and approximately 20 mg/ml in DMSO and DMF.

Actarit is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, actarit should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. Actarit has a solubility of approximately 0.1 mg/ml in a 1:9 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

Actarit is an orally active immunomodulator that reduces symptoms in animal models and clinical trials of rheumatoid arthritis.¹⁻³ It suppresses inflammation and nitric oxide production, particularly in early stages of disease development.¹⁻²,⁴ Actarit also alters immunological signaling and symptoms in experimental autoimmune encephalomyelitis, an animal model of multiple sclerosis.⁵

References